LISTING OF THE CLAIMS

A listing of all claims and their current status in accordance with 37 C.F.R. § 1.121(c) is provided below.

1. (previously presented) A slurry polymerization process in which solid polyolefin particles are formed in a fluid slurry, the process comprising:

introducing an olefin monomer to a loop reaction zone through a plurality of monomer feeds;

introducing a catalyst to the loop reaction zone, the catalyst being capable of polymerizing the olefin monomer;

polymerizing the olefin monomer to form a fluid slurry containing solid polyolefin particles; and

withdrawing a portion of the fluid slurry as an intermediate product at a slurry withdrawal location in the loop reaction zone where the intermediate product contains a higher concentration of the solid polyolefin particles than an average concentration of the solid polyolefin particles the fluid slurry in the loop reaction zone.

- 2. (previously presented) A process according to claim 1 wherein the portion of the fluid slurry is withdrawn through a plurality of catalyst feeds.
- 3. (previously presented) A process according to claim 1 wherein the portion of the fluid slurry is withdrawn through a plurality of product take-offs.

- 4. (previously presented) A process according to claim 3 wherein the monomer feeds and the product take-offs are substantially symmetrically arranged around the loop reaction zone.
- 5. (previously presented) A process according to claim 1 wherein a range of concentration of the olefin monomer within the loop reaction zone is 1.05% or smaller.
- 6. (previously presented) A process according to claim 1 wherein the plurality of monomer feeds comprises at least one monomer feed per 800 feet of reactor length.
- 7. (previously presented) A process according to claim 1 wherein the plurality of monomer feeds comprises at least one monomer feed per 18,000 gallons of reactor volume.
- 8. (previously presented) A process according to claim 1 wherein the fluid slurry has a plurality of monomer concentrations around the loop reaction zone, and the standard deviation of the plurality of monomer concentrations is equal to or less than 0.4%.
- 9. (previously presented) A process according to claim 1 comprising measuring the concentration of the olefin monomer in the withdrawn portion of the fluid slurry, and adjusting the introduction of the olefin monomer in response to the measured concentration.

- 10. (original) A process according to claim 9, wherein the introduction of the olefin monomer is adjusted so that a different amount of the olefin monomer is fed at one monomer feed than the amount of the olefin monomer feed at another monomer feed.
- 11. (previously presented) A process according to claim 1 wherein the loop reaction zone has a volume of more than 20,000 gallons.
- 12. (previously presented) A process according to claim 1 wherein the loop reaction zone has a volume of more than 30,000 gallons.
- 13. (previously presented) A process according to claim 1 wherein the loop reaction zone has a volume of 35,000 gallons or more.
- 14. (previously presented) A process according to claim 1 wherein each of the monomer fees is separately controlled.
- 15. (previously presented) A process according to claim 1 wherein the solid polyolefin particles have a molecular weight distribution that is unimodal.
- 16-20. (cancelled)
- 21. (previously presented) A process according to claim 1, comprising introducing a liquid diluent to the loop reaction zone.

- 22. (previously presented) A process according to claim 21, wherein the polyolefin particles comprise polyethylene.
- 23. (previously presented) A process according to claim 1, wherein the polyolefin particles comprise polypropylene.
- 24. (previously presented) A slurry polymerization process in which solid polyolefin particles are formed in a fluid slurry, the process comprising:

introducing an olefin monomer to a loop reaction zone through a plurality of monomer feeds;

introducing a catalyst to the loop reaction zone, the catalyst being capable of polymerizing the olefin monomer;

polymerizing the olefin monomer to form a fluid slurry containing solid polyolefin particles; and

withdrawing a portion of the fluid slurry as an intermediate product through a plurality of product take-offs, wherein the monomer feeds and the product take-offs are arranged substantially symmetrically about the loop reactor.

25. (previously presented) A process according to claim 24, comprising introducing a liquid diluent to the loop reaction zone.

- 26. (previously presented) A process according to claim 25, wherein the polyolefin particles comprise polyethylene.
- 27. (previously presented) A process according to claim 24, wherein the polyolefin particles comprise polypropylene.